BRUHAT BANGALORE MAHANAGARA PALIKE, BANGALORE

Name of Work: "Construction of RCC return Wall and Building to proposed dobhighat at Mallasandra in Ward No.13".

Measurement Sheets

1st Final Bill

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ame of work:Construction of RCC return Wall and Building to proposed dobhighat at Mallasandra in Ward No.13

Detailed Measurements

surement Recorded On: 19-03-2019

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a)/2.3.1(I.tm No.2.1, P.No.5, SR:2016 17)						
Dobighat						
For Retaining Wall	1	7.90	9.00	0.60	42.66	
	1	20.10	9.00	0.60	108.54	
				Present Qty	**151.20**	**Cum**

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Name of work:Construction of RCC return Wall and Building to proposed dobhighat at Mallasandra in Ward No.13

Detailed Measurements

Measurement Recorded On: 22-03-2019

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per specifications,specification. No. KBS 2.1(b)/2:3.5 (Item No.2.4, page No.5, SR: 2016-17)						
	Dobighat						
	For Retaining Wall	1	7.90	9.00	0.30	21.33	
		1	20.10	9.00	0.30	54.27	
					Present Qty	**75.60**	**Cum**

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ame of work:Construction of RCC return Wall and Building to proposed dobhighat at Mallasandra in Ward No.13

Detailed Measurements

surement Recorded On: 27-03-2019

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in soft rock not exceeding 1.50mtrs in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications, specification.						
Dobighat						
For Retaining Wall	1	7.90	9.00	0.36	25.60	
	1	20.10	9.00	0.36	65.12	
				Present Qty	**90.72**	**Cum**

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Detailed Measurements

asurement Recorded On: 16-05-2019

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification.						
	Dobighat						
	Back Filling Height same as RW Height			(1.5+1.1)/2			
	For Retaining Wall	1	7.90	1.30	7.70	79.08	
		1	20.10	1.30	7.80	203.81	
					Present Qty	**282.89**	**Cum**

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Detailed Measurements

Measurement Recorded On: 22-04-2019, 27-04-2019, 30-04-2019, 16-05-2019

Discription of Item	No	Length	B1	B2	Breadth	Depth	Qty	Unit
KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm cum and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets Etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications,								
Dobighat								
For Retaining Wall Raft	1	28.00			8.00	1.25	280.00	
For Shear Key	1	28.00			0.90	0.90	22.68	
Coloumns	2	0.20			0.45	2.40	0.43	
	5	0.20			0.45	3.00	1.35	
For Roof Beams	7	5.00			0.20	0.45	3.15	
	1	28.00			0.20	0.45	2.52	
For Wall 1st lift	1	28.00	1.25	1.16	= 1.21	1.20	40.49	
For Wall 2nd lift	1	28.00	1.16	1.07	= 1.12	1.20	37.46	
For Wall 3rd lift	1	28.00	1.07	0.99	= 1.03	1.20	34.61	
For Wall 4th lift	1	28.00	0.99	0.89	= 0.94	1.20	31.58	
For Wall 5th lift	1	28.00	0.89	0.80	= 0.85	1.20	28.39	
For Wall 6th lift	1	28.00	0.80	0.71	= 0.76	1.20	25.37	
For Wall 7th lift	1	7.90	0.71	0.62	= 0.67	0.60	3.15	
	1	20.10	0.71	0.62	= 0.67	1.20	16.04	
For Slab @ 12ft Level	1	28.00			5.00	0.15	21.00	
						Present Qty	**548.23**	**Cum**

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Detailed Measurements

Premeasurement Recorded On: 22-04-2019, 29-04-2019, 03-04-2019

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
15	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.						
	Dobighat						
	Coloumns	2	1.30		2.40	6.24	
		5	1.30		3.00	19.50	
	For Roof Beams	14	5.00		0.45	31.50	
		2	28.00		0.45	25.20	
	For Wall 1st lift	2	28.00		1.20	67.20	
	For Wall 2nd lift	2	28.00		1.20	67.20	
	For Wall 3rd lift	2	28.00		1.20	67.20	
	For Wall 4th lift	2	28.00		1.20	67.20	
	For Wall 5th lift	2	28.00		1.20	67.20	
	For Wall 6th lift	2	28.00		1.20	67.20	
	For Wall 7th lift	2	7.90		0.60	9.48	
		2	21.10		1.20	50.64	
					Present Qty	**545.76**	**Sqm**

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Detailed Measurements

Premeasurement Recorded On: 29-04-2019

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
16	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level.						
	Dobighat RW						
	For Slab @ 12ft Level	1	28	5.00		140.00	
					Present Qty	**140.00**	**Sqm**

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Name of work: Construction of RCC return Wall and Building to proposed dobhighat at Mallasandra in Ward No.13

Detailed Measurements

Measurement Recorded On: 12-04-2019, 23-04-2019, 29-04-2019

Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3- TMT bars Fe 500' (PW,P& IWTD SR 2016-17, Pg No 17 Item No.4.46.2)							
For footing							
Main bar 25mm dia bar @75mmC/C							
28/0.075= 373Nos	2	373	9.20		3.86	26491.95	
Distribution Bar 20mm dia @100mmC/C							
7.5/0.100 =75Nos	2	75.00	28.00		2.47	10374.00	
For Shear Key 16mm Dia bar @ 80mm C/C							
For Shear Key 16mm Dia bar @ 150mm C/C							
	1	350.0	2.20		1.58	1216.60	
	1	14	28.00		1.58	619.36	
For Wall 1st Lift							
Main Bar 25mm dia bar @80mm C/C							
28/0.08=350Nos	2	350	5.30		3.86	14320.6	
Distribution Bar 16mm dia @100mmC/C							
3.5/0.100=34Nos	2	34	28.00		1.58	3008.32	
For Wall 2nd Lift							
Main Bar 25mm dia bar @160mm C/C							
28/0.125=175.00Nos	2	175	3.45		3.86	4660.95	
Distribution Bar 16mm dia @100mmC/C							
3.5/0.100=34Nos	2	34	28.00		1.58	3008.32	
For Wal l3rd Lift							
Main Bar 25mm dia bar @160mm C/C							
28/0.125=175.00Nos	2	175	3.45		3.86	4660.95	
Distribution Bar 16mm dia @100mmC/C							
28/0.100=34Nos	2	34	28.00		1.58	3008.32	
For Coloumns							
Main Bar 8# 16mm dia bar	2	8	4.25		1.58	107.44	
Stirups	2	24	1.20		0.39	22.46	
Main Bar 8# 16mm dia bar	5	8	4.85		1.58	306.52	
	2	28	1.20		0.39	26.21	
For Roof Beam	7	8	5.00		1.58	542.40	
Stirups @150mm C/c	2	33	1.20		0.39	30.89	

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Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
For Slab	224	1	5.00		0.89	996.80	
	33	1	28.00		0.61	563.64	
					Present Qty	**73965.73**	**Kg**
					Present Qty	**73.97**	**Tn**

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